

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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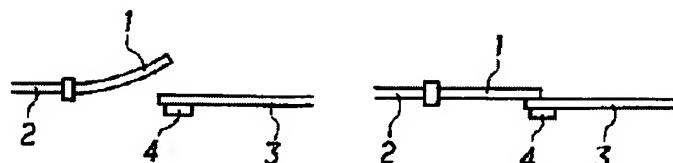
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APPLICANT : NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL & TECHNOLOGY;

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TITLE : FERROMAGNETIC SHAPE MEMORY  
ALLOY AND ACTUATOR USING THE  
SAME



ABSTRACT : PROBLEM TO BE SOLVED: To provide a ferromagnetic shape memory alloy excellent in ductility, having ferromagnetic properties and martensitic transformation, and to provide an actuator using the same.

SOLUTION: This ferromagnetic shape memory alloy has a composition containing, by atom, 5 to 70% Co, 5 to 70% Ni and 5 to 50% Al, and the balance inevitable impurities and has a single phase structure composed of a  $\beta$  phase with a B2 structure or a dual phase structure composed of a  $\gamma$  phase with an fcc structure and a  $\beta$  phase with a B2 structure.

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